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DDR # 608-62

8 October 1962

MEMORANDUM FOR: Assistant for Coordination/DCI

SUBJECT: Scientific and Technical Intelligence-General

REFERENCE: (a) AC/DCI Memorandum dated 27 August 1962
(b) USIB-D-34.4/3, dated 6 August 1962

1. We have set forth below the manpower and cost estimates with respect to specific recommendations in Attachment B to USIB-D-34.4/3 as requested in your memorandum of 27 August 1962. Comments on implementation are included where appropriate.

2. Recommendation A - A careful review of all Government sponsored machine translation efforts has been made and a new coordinated program of research has been developed. The present proposals should considerably accelerate progress toward a practical machine translation capability responsive to priority needs of the Government. CIA has committed [] of FY 1963 money to phase out its machine translation program at []

[] As a partner with the Department of Defense and the [] who have proposed establishment of a joint automatic language process center, CIA will be asked to furnish about [] to this project during FY 1963. If the Agency supports this request, money would have to come from the contingency fund since there is no provision in the FY 1963 budget for this item. Funding plans for all known U. S. Government sponsored machine translation research during FY 1963 has been estimated informally by DOD/DDR&E at slightly over \$1,000,000. Proposals for Agency financial support of machine translation beyond FY 1963 may approach [] per year but only [] is called for in the FY 1964 budget and additional funds would have to come from other sources. The number of persons to be involved in machine translation and research over and above those provided for in the funds discussed above cannot be accurately established at this time but should not be numerous.

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3. Recommendation B - As stated in the study, an additional [] would essentially double the in-house exploitation of Soviet Bloc scientific and technical literature and is a workable figure considering translators available, value of intelligence, etc. The determination as to whether or not these funds should be allocated has not been made to date. The Office of Scientific Intelligence, as a major consumer of such information, supports an accelerated program and is able to utilize the increased output without additional requirements for funds or manpower.

4. Recommendation C - The Office of Operations is requesting the Chairmen of the Scientific Intelligence Committee, the Guided Missile and Astronautics Intelligence Committee, and the Joint Atomic Energy Intelligence Committee for a listing of technical subjects which could be the basis for expansion, and better exploitation of Project [] sources. It is anticipated that modifying and expanding the project as recommended will require the following additional personnel and funds: Professional - 1 GS-11, 1 GS-12, 1 GS-14, 1 Clerk Typist GS-5/6; Operating Expenses - \$15,000; Training - \$5,000; Travel - \$19,000; Total - \$39,000; Salaries - \$36,500; Grand Total - \$75,000. 25X1

5. Recommendation D - Improvements in the procedures for acquiring and exploiting of Soviet Bloc material are awaiting the compilation of an appropriate manual in the DIA and certain internal realignments being considered within that Agency. Further coordination between the DIA and CIA will be inaugurated when these actions are completed. Significant expenditure of additional funds or manpower as a result of any changes in operating procedures which may be made is not anticipated.

6. Recommendation E - CIA concurs in the recommendation to increase its program for the clandestine collection of S&T information. Increases in personnel and funds over the present small allocation for this purpose have already been authorized for FY 1963 and still additional increases planned for FY 1964. These increases will approximately double the Headquarters complement designated to plan, develop and support agent scientific operations and approximately triple the funds allocated to this unit. The Clandestine Services intend to absorb these increases. The various offices of the DD/I will assist the Clandestine Services in the execution of a sound long range program for the Clandestine Services' collection of S&T information. These offices do not anticipate a requirement for additional funds or manpower at this time for the support of this program. As observed in the study by the Assistant for Coordination, effective implementation of this program will take time and sustained effort.

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25X1 7. Recommendation F - The revised version of Section 6 of the subject report recognizes that the expansion of all existing capabilities for the collection and analysis of telemetry is necessary, and that this expansion should be done by all participating agencies under the cognizance of the Director, NSA. Within CIA the Office of Scientific Intelligence has already expended considerable effort in making use of U. S. research and development facilities, especially at [redacted] for the analysis of ballistic missile telemetry and trajectories. As a further development of this program, a space vehicle assessment contract has just been initiated with the [redacted].

25X1 Other such contracts are planned, because the timely and complete coverage of several other high priority areas requires specialized analysis and equipment, including automatic data processing based on U. S. research and development data and technical intercepts. Such analysis cannot be done within OSI without major increase in Office personnel ceilings and additional physical facilities; therefore the Office plans to rely on specialized contracts. OSI proposes to expand this program to a steady-state level of [redacted] per year by FY 1966. Thereafter, new needs will be met by cutting back or cancelling old more or less complete analyses. This program is expected to include telemetry and other types of technical analysis and to reach the following funding levels for FY 1966: [redacted] for ballistic missile and trajectory analysis; \$0.7 million for unmanned spacecraft analysis; [redacted] for air defense and anti-ballistic missile systems analysis; [redacted] for cruise missile systems analysis; and [redacted] for anti-submarine warfare systems analysis. These projects and other related external research needs will require a [redacted] increase in the OSI external research budget, and three to six additional professional positions.

25X1 8. Recommendation G - In view of the revision of Section 6 by the SIGINT Committee, it is believed that this recommendation is no longer pertinent as no problem is recognized.

25X1 9. Recommendation H - Presently existing USIB committees should be adequate for the objectives of this recommendation. Thus, the subject of costs is not pertinent to its implementation.

10. Recommendation I - No comment.

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11. Recommendation J - Any changes of funds and manpower resulting from consultation with DIA will be reported under subject or subjects involved. No increases resulting from such consultation are anticipated at this time.

12. Recommendation K - No comment.

13. Recommendation L - Improved collection processes and techniques together with an expanded external contract program utilizing the highly technical capabilities of qualified non-government laboratories and research and development organizations will greatly enhance the production of scientific and technical intelligence. Thus, without increased expenditure of funds or manpower except as specified above, OSI expects to broaden its support to U. S. research and development organizations such as the

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